



LED Cooler Light

STA Series



STA Series

Beyond LED Technology is the leader in cutting-edge refrigerated display lighting technology! Our STA Series cooler light produces wider beam for more evenly dispersed lighting. Also, our LED Cooler lights have a built-in driver and a daisy-chain design that allows it to be installed in minutes. Our LED Cooler/Freezer lights qualify for rebate programs with most major power companies. Our STA Series Cooler light and Freezer Lamps deliver crisp, bright light that creates attractive food and product displays in freezers and walk-in refrigerator cases. They consume less energy and run longer and cooler than fluorescent freezer bulbs, lowering operating costs and reducing the risk of food spoilage.

- Up to 130 lumens per watt
- V Shape Design
- Wider beam angle
- Universal 100-277Vac 50-60Hz
- Built-in driver
- Daisy-chain (up to 10 lamps in a series)
- ETL Listed
- CRI >80

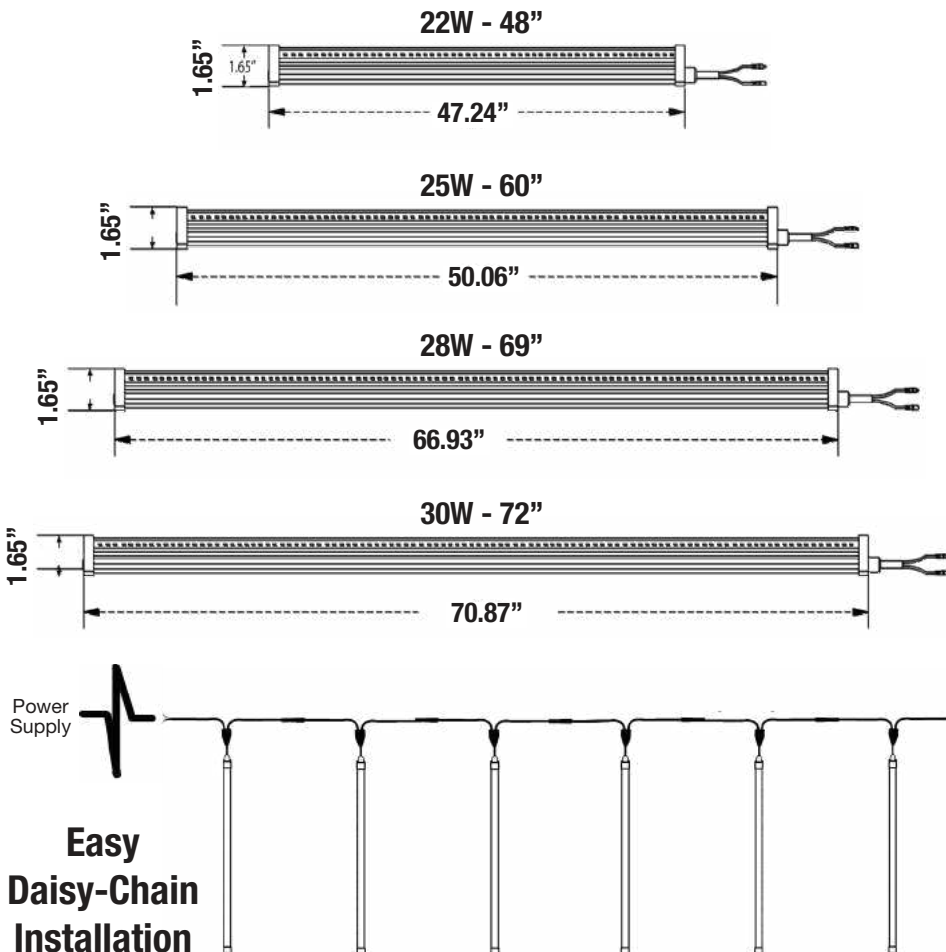
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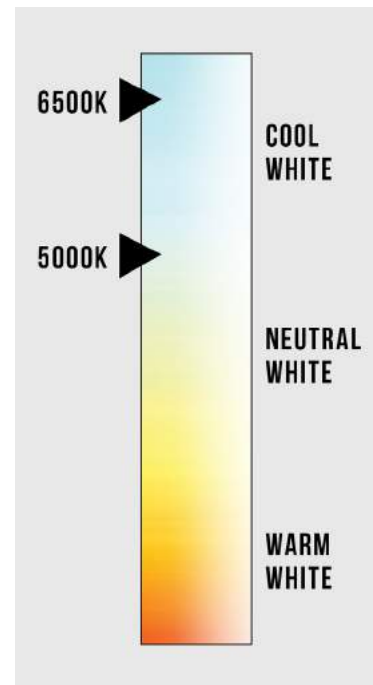
STA Series - V Shape

SKU #	Model #	Watts	Length	Qualified	Lumens	CCT	Type
100149	100149	22W	48"	ETL & DLC	2600Lm	5000K	V-Shape
101782	101782	25W	60"	ETL & DLC	3200Lm	5000K	V-Shape
101790	101790	28W	69"	ETL & DLC	3000Lm	5000K	V-Shape
102301	102301	30W	72"	ETL & DLC	4000Lm	5000K	V-Shape
101311	100149	22W	48"	ETL	2640Lm	6500K	V-Shape
101782-1	101782	25W	60"	ETL	3000Lm	6500K	V-Shape
101790-1	101790	28W	69"	ETL	3360Lm	6500K	V-Shape
101808	102301	30W	72"	ETL	3600Lm	6500K	V-Shape

Dimensions



CORRELATED COLOR TEMPERATURE (CCT)



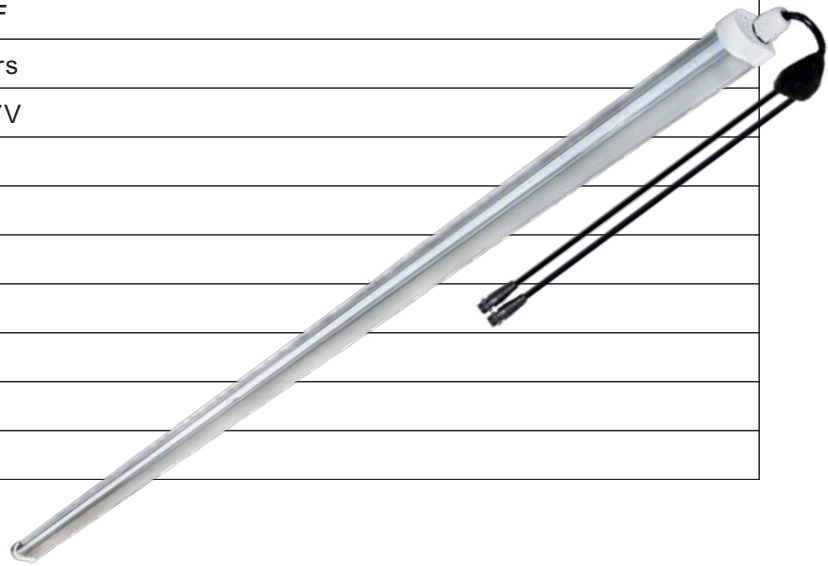
Connect
Up to 10 lamps
in a series



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Specifications

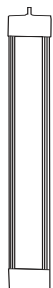
POWER:	22W	25W	28W	30W
Weight:	1.4 Lbs	1.6 Lbs	1.8 Lbs	2.2 Lbs
LED Quantity:	168 pcs	192pcs	216pcs	216pcs
Color Range:	5000K / 6500K			
Housing:	AL and High strength PC			
Operation Temp.:	-4°F to 104°F			
Life Span:	50,000hours			
Voltage range:	AC100-277V			
Frequency:	50/60Hz			
Beam angle:	180°			
PC Lens:	Clear			
Color index (CRI):	> 80			
Luminous efficacy:	> 130lm/w			
PF:	≥0. 92			
Power Efficiency:	≥0. 88			



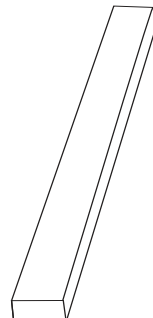
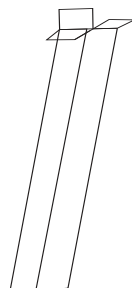
Packing

Model	Size	Pcs/Box	Dimensions	Weight	Pallet Quantity	Pallet Weight	Pallet Dimensions
22W	48"	20	71" X 8" X 8"	45 Lbs			
25W	60"	20	71" X 8" X 8"	45 Lbs			
28W	69"	20	83" X 8" X 8"	49 Lbs			
30W	72"	20	83" X 8" X 8"	49 Lbs			

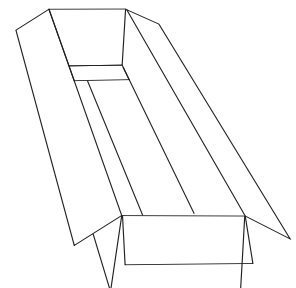
LED Tube



Into Inner Box



Into Outer Box



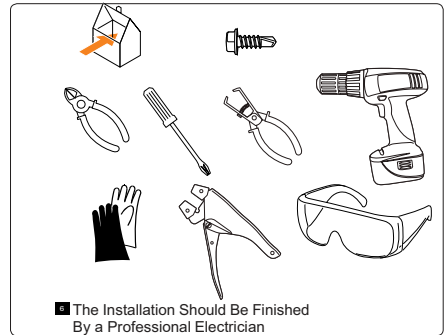
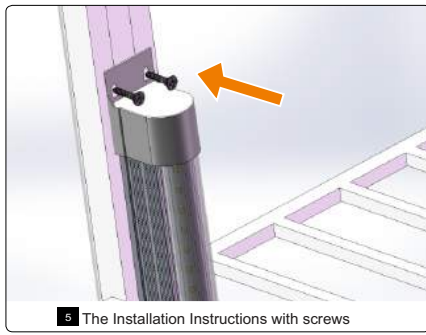
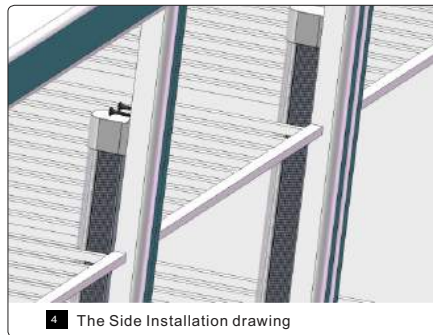
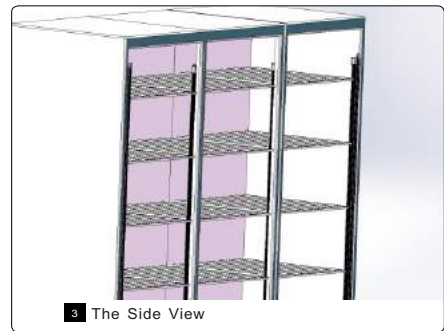
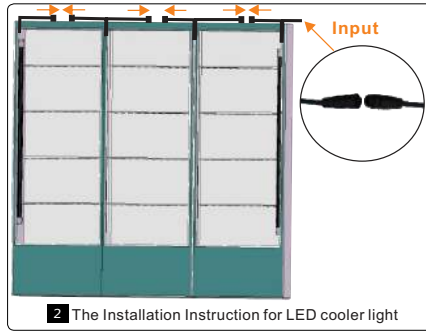
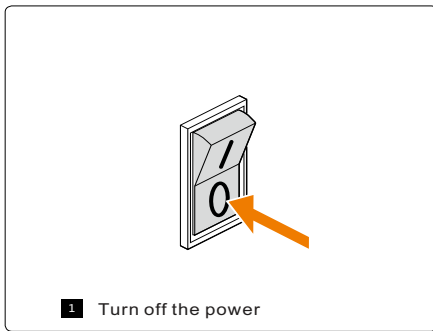
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Installation



Mounting hardware required for some cooler lights. Others have built-in brackets.



Easy Daisy-Chain Installation



One power source can connect up to ten (10) lights.
WARNING: Do not connect more than ten (10) lights per power source.

Watt Comparison

Beyond LED's Cooler Light	REPLACES	Traditional Cooler Light
22W		45W
25W		50W
28W		55W
30W		60W

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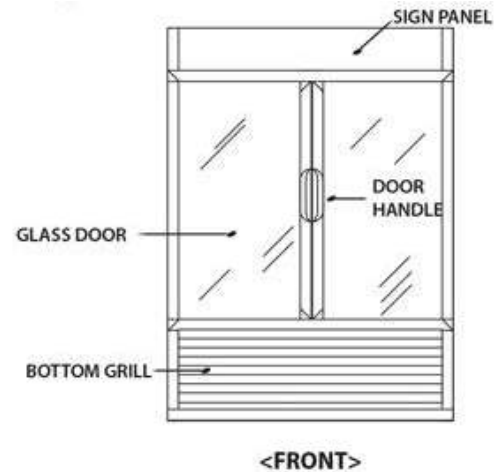
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Installation

1. Disconnect power from cooler system.

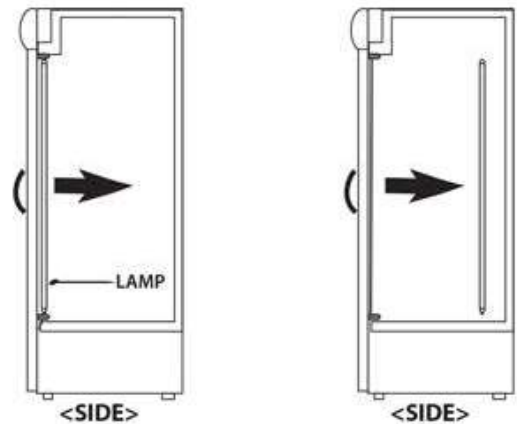
For safety, all power MUST be disconnected prior to removal of existing lamps and installation of T8 LED light tubes.

WARNING: Failure to disconnect power could result in serious injury or death. It is the end user's responsibility to consult a licensed electrician and check all local building codes before installation.



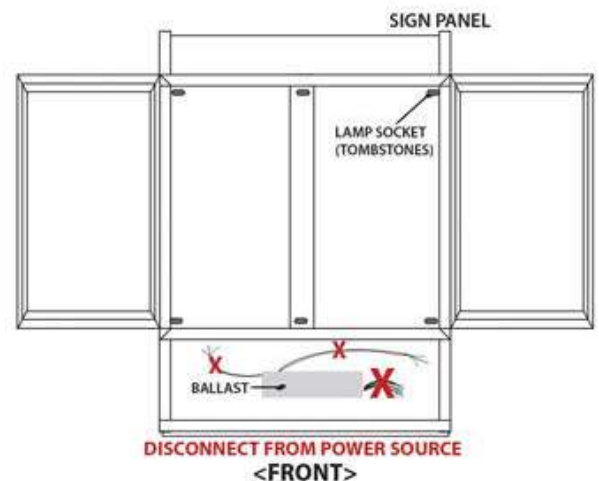
2. Remove existing lamps.

Remove lamp covers if present and remove lamps. Your new T8 lights are shatter-proof; you will no longer require lamp covers.



3. Disconnect ballast.

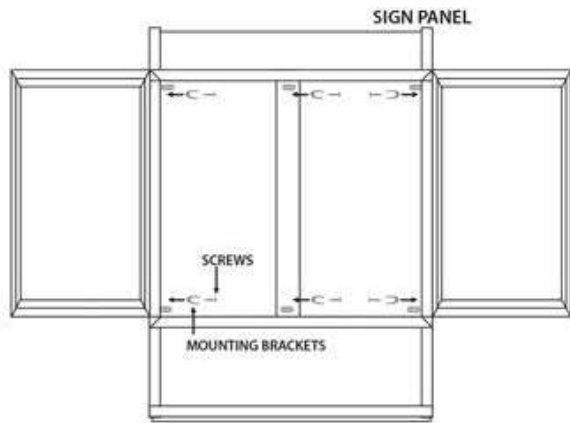
Disconnect wiring from the power source. Ballast removal is optional. Disconnect wiring to original lamp sockets and tie off. None of the existing system will be used, so removal is optional.



LED Cooler Light

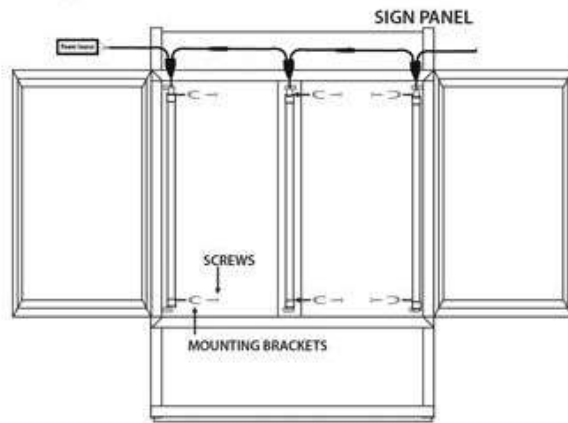
STA Series

Installation



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Installing with mounting brackets

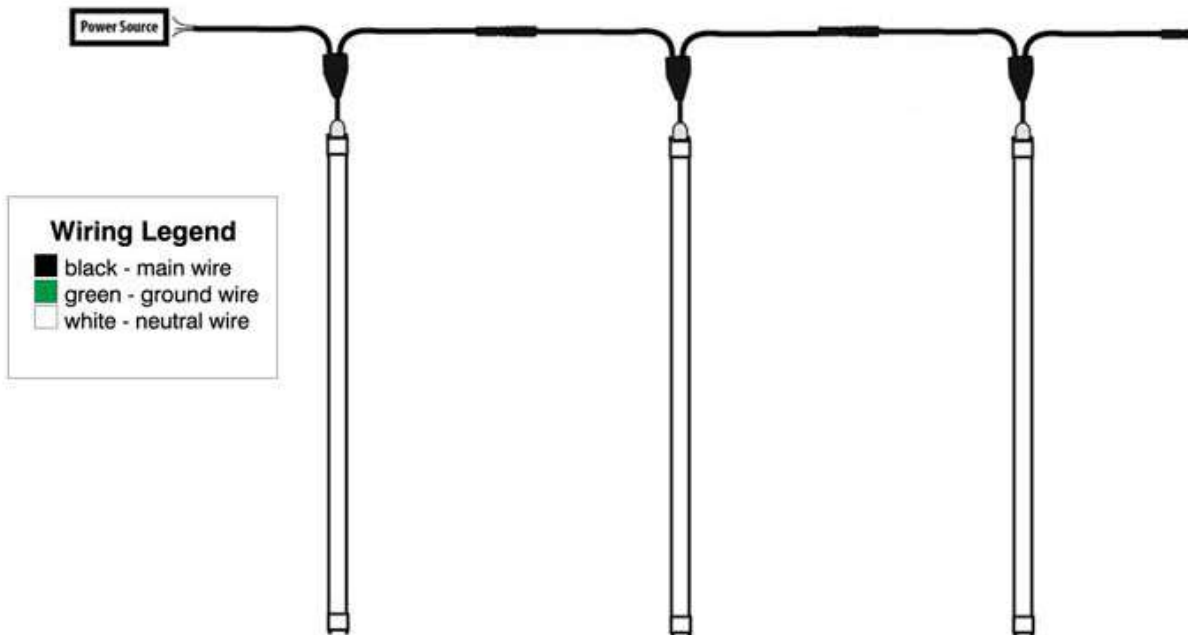


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Installing with built-in brackets

4. Install brackets.

Use self-tapping screws to mount the brackets. In some cases drilling a pilot hole will make the installation easier. Each mounting bracket can be placed inside of the existing sockets (tombstones).



5. Connect to power source and connect lights in a series.

Connect first cable to the power source. Expose 3 wires to connect. See legend above for connection. Connect the male/female ends of each light. (Not to exceed 10 lights).



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Distribution Diagram - 22W - 5000K

Total operating time for luminous intensity distribution: **1.0 hours**

Test orientation: **Downward**

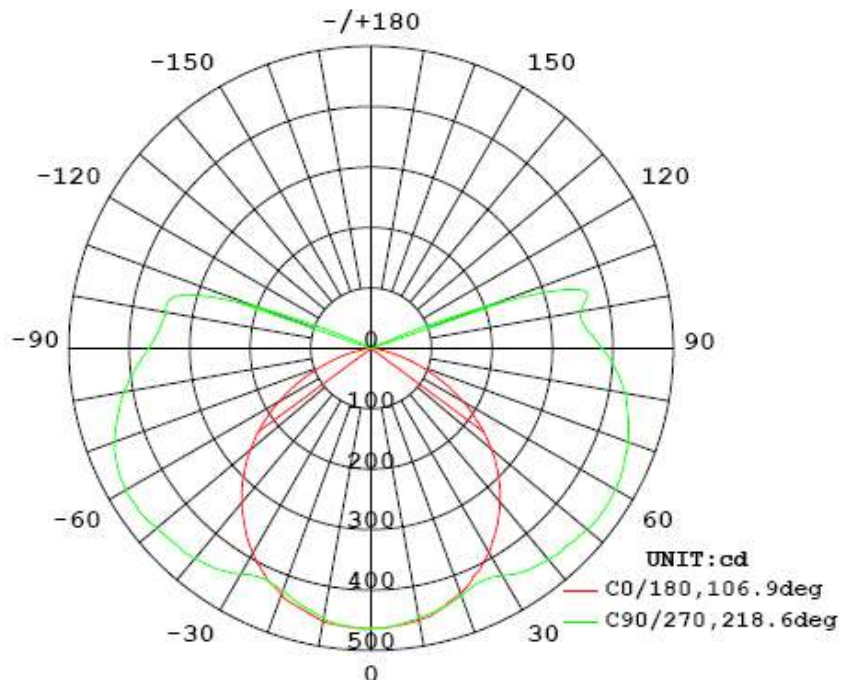
Electrical Measurement

Input Voltage (V)	Frequency (Hz)	Input Current (A)	Power (W)	Power Factor
120.0	60.0	0.1765	20.93	0.9879

Photometric Measurement

Luminous Flux (lm)	Efficacy (lm/W)	CBCP (cd)	S/MH (C0/180)	S/MH (C90/270)
2526.18	120.70	463	1.25	1.49

Luminous Intensity Distribution

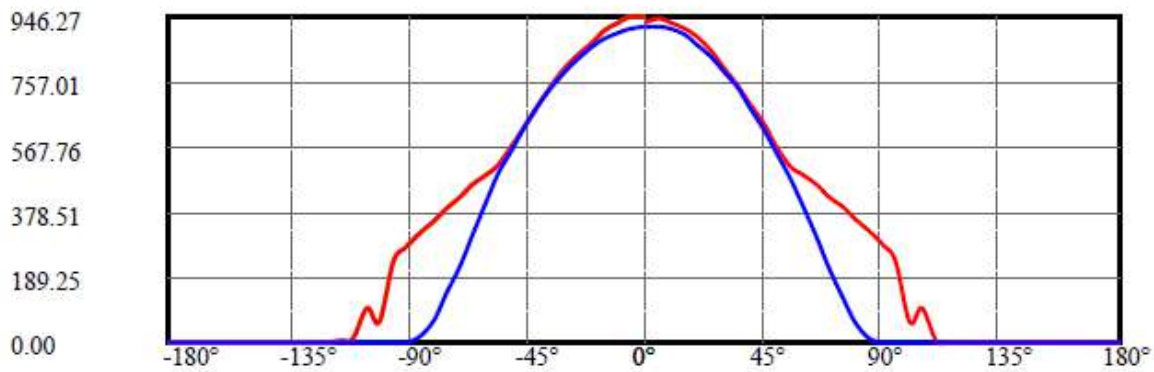
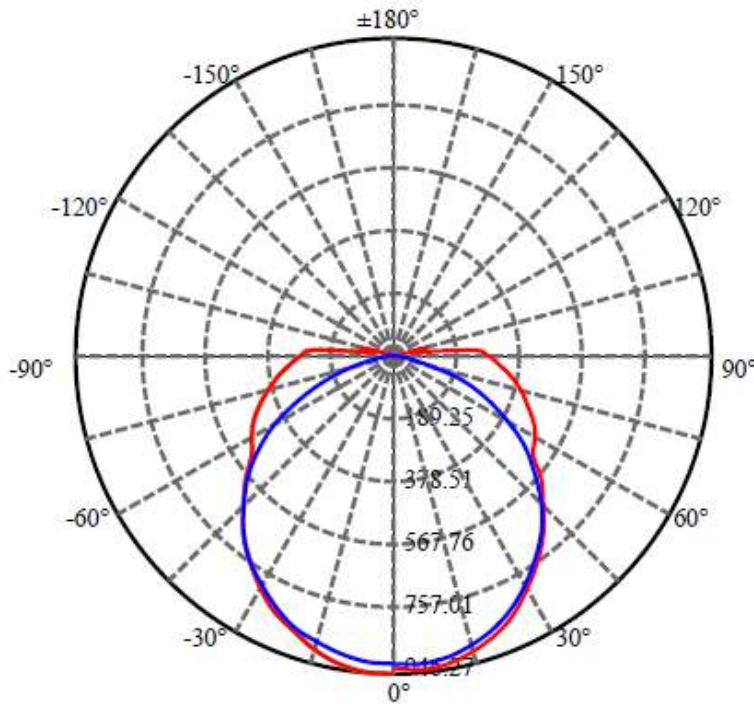


	C0/180	C45/225	C90/270	C135/315	AVG.
Beam Angle (50% I _{max}):	106.9	202.2	218.6	203.4	182.78
Field Angle (10% I _{max}):	151.0	211.5	228.1	212.2	200.70

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Distribution Diagram - 25W - 5000K



C180(Max): ———
 C0/C180: ———
 C90/C270: ———

Field angle(10%Imax):C0/180Left:105.4 Right:105.5
 :C90/270Left:78.2 Right:77.7

Beam Angle(50%Imax):C0/180Left:63.7 Right:63.9
 :C90/270Left:57.1 Right:56.1



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Distribution Diagram - 28W - 5000K

Total operating time for luminous intensity distribution: **1.5 hours**

Test orientation: **Downward**

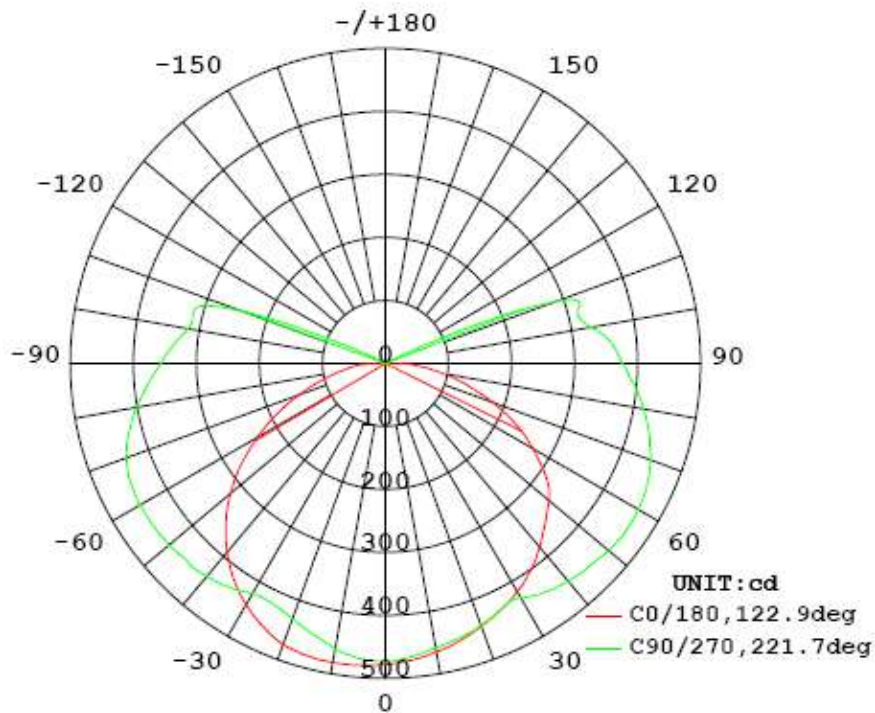
Electrical Measurement

Input Voltage (V)	Frequency (Hz)	Input Current (A)	Power (W)	Power Factor
120.1	60.0	0.226	26.76	0.9863

Photometric Measurement

Luminous Flux (lm)	Efficacy (lm/W)	CBCP (cd)	S/MH (C0/180)	S/MH (C90/270)
2758.21	103.07	478	1.36	1.42

Luminous Intensity Distribution

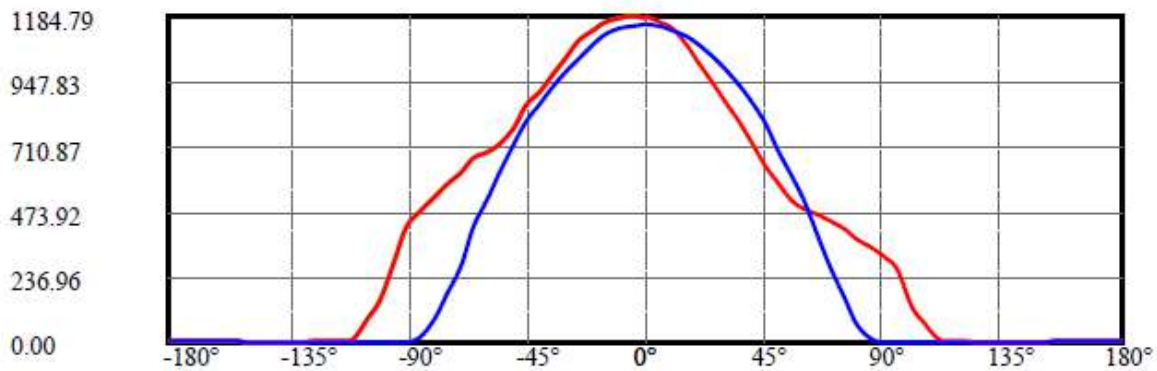
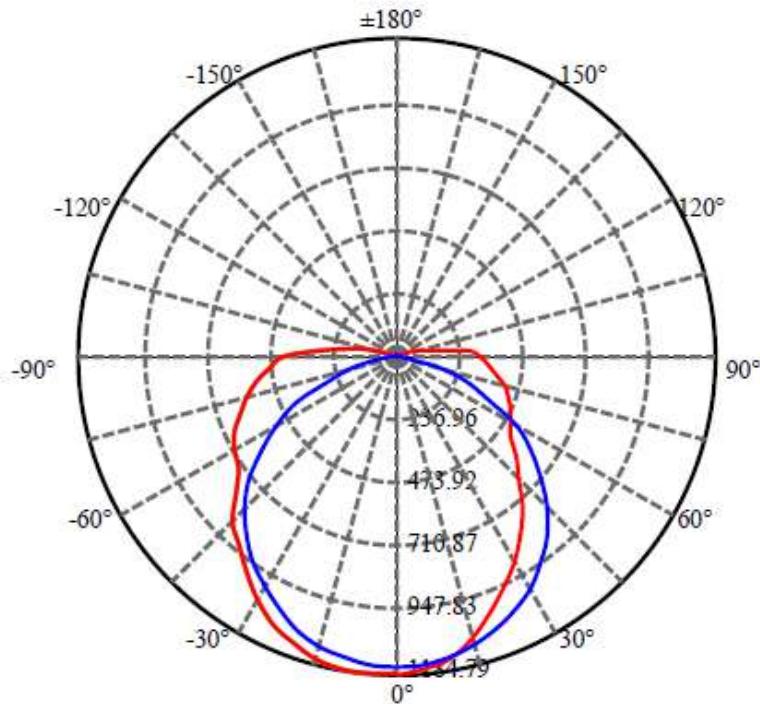


	C0/180	C45/225	C90/270	C135/315	AVG.
Beam Angle (50% Imax):	122.9	212.8	221.7	194.6	188.0
Field Angle (10% Imax):	171.8	221.9	231.5	209.9	208.8

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Distribution Diagram - 30W - 5000K

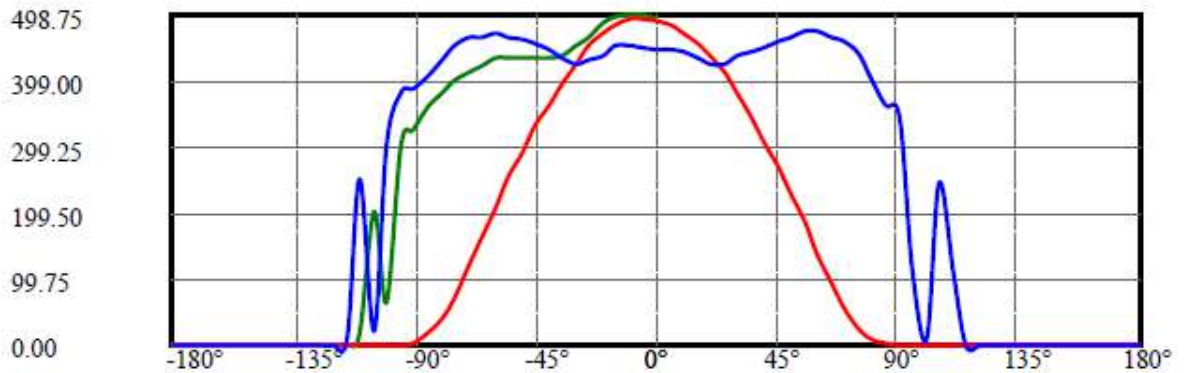
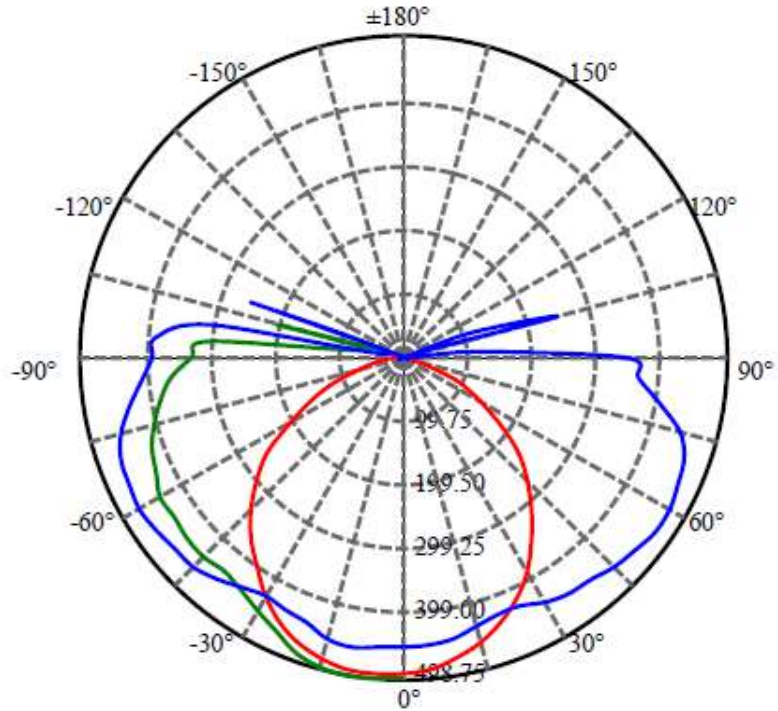


C180(Max): ———
 C0/C180: ———
 C90/C270: ———
 Field angle(10%Imax):C0/180Left:97.8 Right:106.1
 :C90/270Left:78.5 Right:77.3
 Beam Angle(50%Imax):C0/180Left:68.2 Right:54.1
 :C90/270Left:57.1 Right:56.5



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Distribution Diagram - 22W - 6500K



C225(Max): —
 C0/C180: —
 C90/C270: —

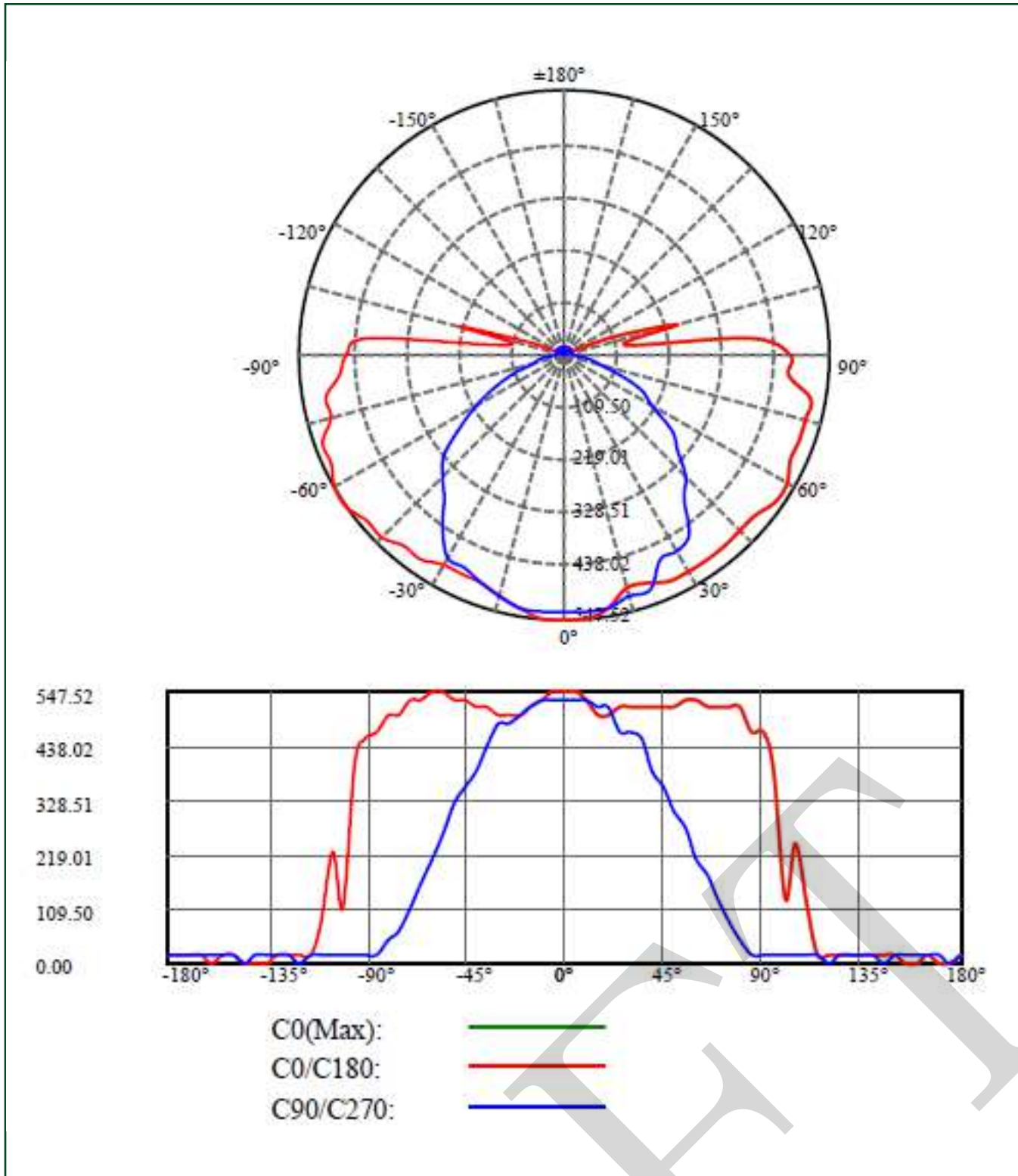
Field angle(10%Imax):C0/180Left:73.7 Right:76.0
 :C90/270Left:174.3 Right:52.8

Beam Angle(50%Imax):C0/180Left:50.9 Right:53.0
 :C90/270Left:170.3 Right:45.3

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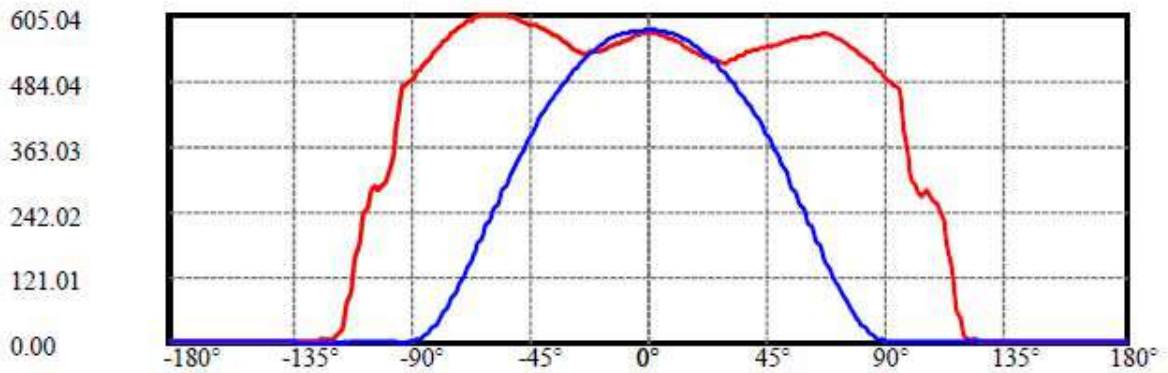
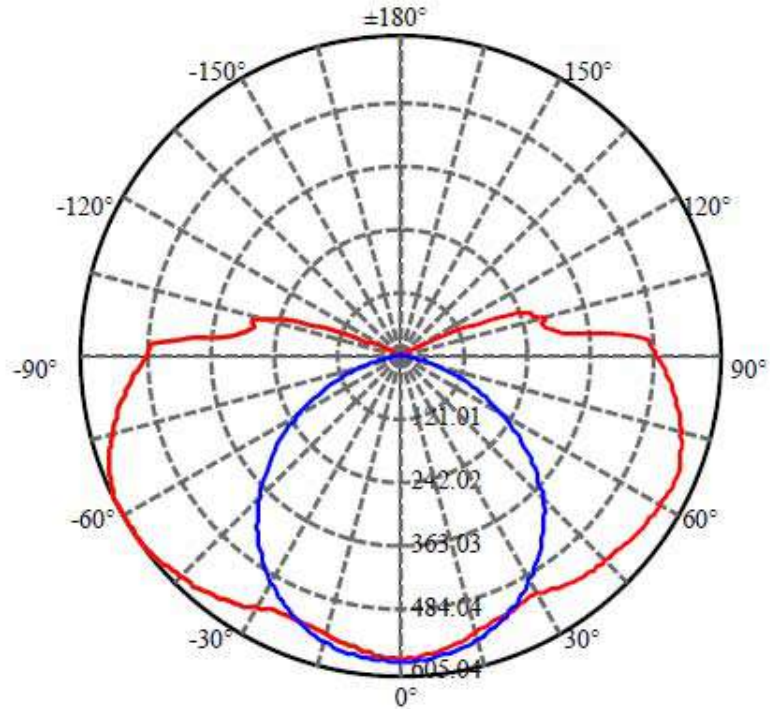
Distribution Diagram - 25W - 6500K








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Distribution Diagram - 28W - 6500K



C180(Max): 
 C0/C180: 
 C90/C270: 

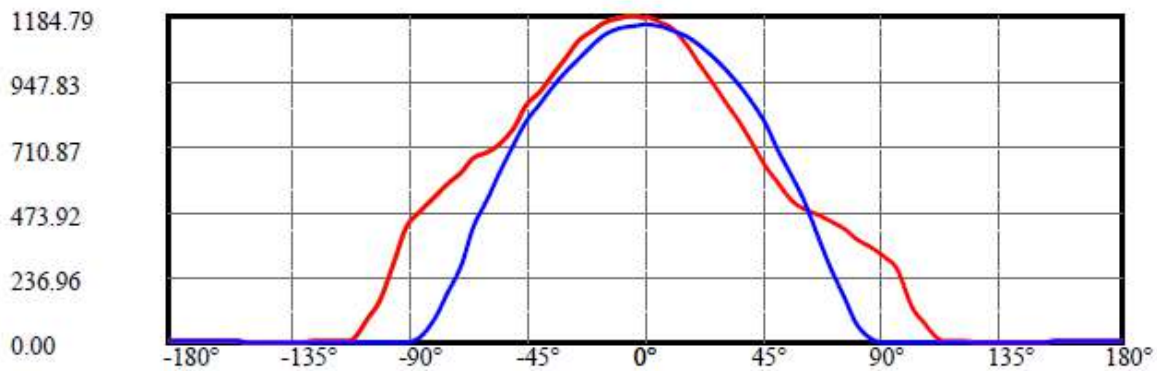
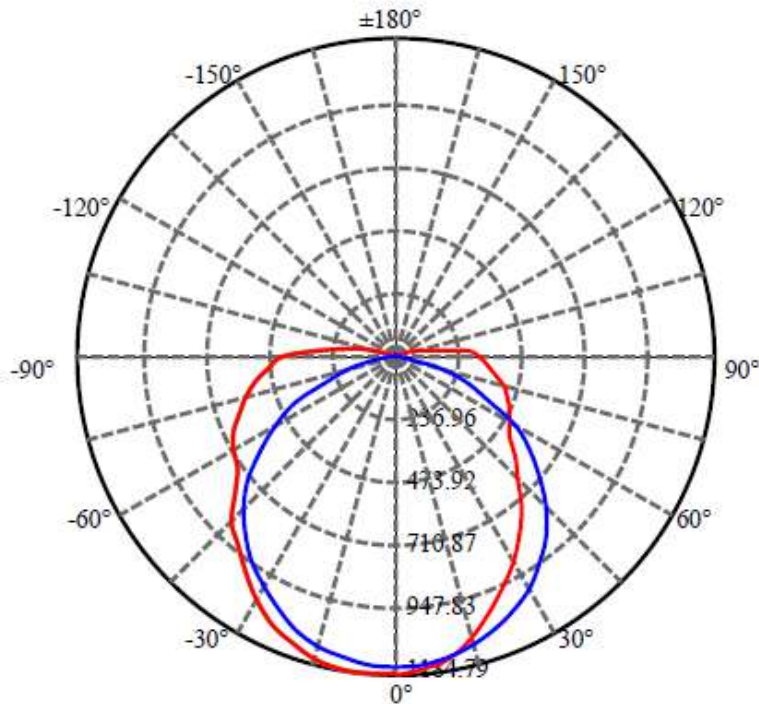
Field angle(10%Imax):C0/180Left:113.8 Right:116.2
 :C90/270Left:76.9 Right:76.6

Beam Angle(50%Imax):C0/180Left:100.0 Right:99.9
 :C90/270Left:54.0 Right:53.9

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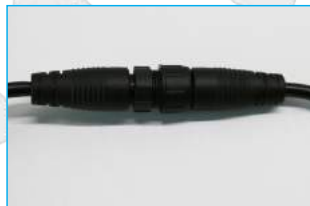
Distribution Diagram - 30W - 6500K



C180(Max): ———
 C0/C180: ———
 C90/C270: ———
 Field angle(10%Imax):C0/180Left:97.8 Right:106.1
 :C90/270Left:78.5 Right:77.3
 Beam Angle(50%Imax):C0/180Left:68.2 Right:54.1
 :C90/270Left:57.1 Right:56.5

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Apply to food plants, dairy plants, pharmaceutical plants, supermarkets, hospitals, various freezers, cold storage and other places for fixed lighting.



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